

Regional Remediation Team

ciba

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July 27, 1995

Mr. Joseph T. Unsworth, P.E.
Department of Environmental Management
Division of Site Remediation
291 Promenade Street
Providence, RI 02908-5767

Dear Mr. Unsworth:

PTRL developed a worker scenario for the Production Area at the Cranston, Rhode Island site based on the intended use of the site as a parking facility. At the request of the Rhode Island Department of Environmental Management (RIDEM), a general worker scenario was also developed and included in the RCRA Facility Investigation (RFI) risk assessment. Your subsequent letter of July 5 requested more detailed information concerning the exposure frequency of the general worker.

It was assumed that the general worker would work primarily indoors, but would spend an average of 1.5 hours of the workday outdoors. The annual exposure frequency is based on the assumption that a hypothetical individual would work in this area of the site for 250 days each year for 25 years. This is the exposure frequency assumed for the general worker scenario via the inhalation exposure pathway. The Cranston area receives about four months of winter weather each year; this equals approximately 85 workdays. During these winter months, dermal and the resulting oral exposure to Production Area soil is expected to be negligible due to snow cover, frozen ground, the barrier represented by winter clothing, and less time spent outdoors. Thus, for the dermal and oral pathways, an exposure frequency of 165 (250 minus 85) days is assumed. The RFI Report, which will be submitted July 31, includes a detailed description of the general worker scenario.

If you have questions concerning this general worker scenario, please give me a call at (908)914-2715.

Very truly yours,



E.J. Berdahl, Ph.D., C.H.M.M.
Regional Compliance Manager

c: F. Battaglia, USEPA- Region 1



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